

§ 64.91

§ 64.91 Relief valve for the cargo pump discharge.

The cargo pump discharge must have a relief valve that is—

(a) Fitted between the cargo pump discharge and the shut-off valve, with the relief valve discharge piped back to the cargo pump suction or returned to the tank; and

(b) Set at the maximum design pressure of the piping and discharge hose, or less.

§ 64.93 Pump controls.

(a) A pressure gauge must be installed—

- (1) On the pump discharge;
- (2) Near the pump controls; and
- (3) Visible to the operator.

(b) A pump must have a remote, quick acting, manual shutdown that is conspicuously labeled and located in an easily accessible area away from the pump. The quick acting, manual shutdown for remote operation must provide a means of stopping the pump power unit.

§ 64.95 Piping.

(a) Piping, valves, flanges, and fittings used in the pumping system must be designed in accordance with part 56 of this chapter.

(b) A cargo loading and discharge header or manifold must—

- (1) Have stop valves to prevent cargo leakage; and

46 CFR Ch. I (10-1-08 Edition)

(2) Be visible to the operator at the cargo pump controls.

(c) Each pipe and valve in the pumping system that has an open end must have a plug or cap to prevent leakage.

(d) Each hose connection must be threaded or flanged except for a quick connect coupling that may be specifically accepted by the U.S. Coast Guard in accordance with the procedures in § 50.25-10 of this chapter.

(e) A non-return valve must be in the pump discharge if a backflow condition may occur during pumping.

(f) Any non-metallic flexible hose that is used in the piping system must comply with § 56.60-25(c) of this chapter.

[CGD 73-172, 39 FR 22950, June 25, 1974, as amended by USCG-2004-18884, 69 FR 58346, Sept. 30, 2004]

§ 64.97 Cargo hose.

Each hose assembly, consisting of couplings and a hose that has an inside diameter—

(a) Larger than three inches, must meet the requirements in 33 CFR 154.500; or

(b) Three inches or less, must be designed to withstand the pressure of the shutoff head of the cargo pump or pump discharge relief valve setting, but not less than 100 pounds per square inch.

INDEX

SUBCHAPTER F—MARINE ENGINEERING

EDITORIAL NOTE: This listing is provided for informational purposes only. It is compiled and kept current by the U.S. Coast Guard, Department of Homeland Security. This index is updated as of October 1, 2008.

Part, subpart, or section

A

Accumulators	58.30-25
Adamson ring furnace	59.10-5(d)
Alarms, superheaters.....	52.01-95(b)(2)
Alignment, pipe welding.....	56.70-10(a)(3)
Allowance for corrosion.....	54.01-35
Aluminum	56.10-5(c)(5)
ANSI Code B31.1	56.01-5
ANSI Standards (Formerly USASI; Formerly ASA)	56.01-2, 56.60-1(b), 58.03-1
Appeals	50.20-40
Approval, plan (see Plan approval)	
ASA (see ANSI)	
ASME Code	52.01-2, 54.01-2, 56.01-2
ASME Code, modifications:	
Section I.....	52.01-2
Section IV	53.01-3
Section VIII	54.01-2
Section IX	57.02-2
ASTM specifications	56.01-2, 56.60-1(b)
Astern power	58.05-5
Attachments to boilers	52.05-30, 52.15-5
Automation, vital system.....	Part 62
Auxiliary steering.....	58.25-25(f)

B

Backfire flame arrester.....	58.10-5
Backing rings, welded pipe joints	56.70-5
Bellows expansion joints	56.35-10, 56.35-15
Bend test	57.06-4
Bending of pipes	56.80-5
Bite-type fittings	56.30-40(b)
Blanks, piping systems	56.25-7
Blowoff piping.....	56.50-40
Boilers:	
Firetube	52.20
Fuel oil systems	56.50-65
Identification letters	50.10-30
Inspection of	61.05
Miniature	52.25-5
Repairs, miscellaneous	59.15
Safety factor.....	52.01-55
Superheater temperature control.....	52.01-95(b)(2)

46 CFR Ch. I (10-1-08 Edition)

Tests required.....	61.05
Watertube	52.15
Bolting.....	56.25-20, Table 56.50-105
Bonnet joints, valves	56.20-9(b)
Branch connections, welded	56.70-15(g)
Brass	56.10-5, 56.60-20
Brazing:	Part 57
Piping systems.....	56.75
Steam air heaters	52.01-95(d), 56.30-30(b)
Butt welds	56.70-10, 56.70-15
Bypasses:	
Steam systems.....	56.50-15(c)
Valve	56.20-20

C

Calculations:	
Boilers.....	52.01-5(b)
Pipe pressure stress	56.07-10(e)
Pipe thermal stress	56.35-1
Pressure vessels.....	54.01-18(b)(1)
Requirement for	50.20-25
Cargo hatch operating systems.....	58.30-1(a)(2)
Cargo oil systems	56.50-60
Cast iron components, restrictions:	
Castings	56.60-1(a) footnote (14)
Flanges.....	56.25-10(b)
General	56.60-10
Heating boilers	53.01-10(b)(2)
Overboard discharges	56.50-95(f)
Power boilers.....	52.01-90(d)
Relief valves.....	54.15-10(f)
Shock testing.....	58.30-15(f)
Valves	56.20-9(b)
Water column piping.....	52.01-110(c)
Castings	56.60-1(a)
Caulked joints	56.30-27
Certification of material	50.25
Charpy V-notch test.....	54.05-5(a)
Circulating pumps	56.50-45
Circumferential joints.....	52.05-45
Collision bulkhead penetrations	56.50-1(b)
Combustion chambers	52.01-3(b)(10)
Combustion control system	63.15, 63.20
Condensate pumps	56.50-35
Construction:	
Electric hot water supply boilers (heaters).....	63.25-3
Piping systems.....	56.65
Power boilers	52.05
Pressure vessels	54.20, 54.25
Valves	56.20-9
Control, superheater temperature.....	52.01-95(b)(2)
Copper & alloys, use of.....	56.10-5(c), 56.60-20
Correspondence, records kept	50.20-33
Corroded surfaces	59.10-10
Corrosion, pressure vessels	54.01-35
Corrosion allowance.....	54.25-5, 54.01-35
Cracks	59.10-5

Subchapter F Index

Cylinders, LPG for cooking & heating	58.16-10(b)
Installation.....	58.16-18
Operation.....	58.16-30
Valves.....	58.16-15
D	
Definitions, administrative:	
Coast Guard number	50.10-30
Coast Guard symbol.....	50.10-25
Commandant	50.10-1
District Commander.....	50.10-5
Headquarters	50.10-20
Marine inspector.....	50.10-15
Officer in Charge, Marine Inspection (OCMI)	50.10-10
Definitions, general:	
Accumulator.....	58.30-25(a)
Boiler:	
Auxiliary	52.01-3(a)(2)
Donkey	52.01-3(a)(2)
Fired steam	52.01-3(a)(8)
Flue	52.01-3(a)(4)
Main power	52.01-3(a)(1)
Packaged	52.01-3(a)(7)
Scotch	52.01-3(a)(4)
Unfired steam.....	52.01-3(a)(9)
Water.....	52.01-3(a)(6)
Watertube.....	52.01-3(a)(3)
Boiler, attachments:	
Auxiliary steam stop valve.....	52.01-3(e)(3)
Blowoff valve	52.01-3(e)(6)
Dry pipe	52.01-3(e)(7)
Feed valve.....	52.01-3(e)(5)
Fusible plugs.....	52.01-3(e)(11), 52.01-50
Main steam stop valve.....	52.01-3(e)(2)
Manifold	52.01-3(e)(4)
Mountings.....	52.01-3(e)(1)
Salinometer cocks	52.01-3(e)(10)
Test cocks.....	52.01-3(e)(9)
Water column	52.01-3(e)(8)
Boiler, fabrication:	
Access or inspection of opening	52.01-3(f)(7)
Alteration	52.01-3(f)(2)
Beading	52.01-3(f)(4)
Bell-mouthing.....	52.01-3(f)(5)
Expanding	52.01-3(f)(3)
Openings.....	52.01-3(f)(8), 52.01-100
Repair	52.01-3(f)(1)
Telltale hole.....	52.01-3(f)(6)
Combustion chamber:	
Back sheet	52.01-3(b)(10)(vi)
Combustion chamber	52.01-3(b)(10)
Common	52.01-3(b)(10)(ii)
Crown.....	52.01-3(b)(10)(iii)
Curved bottom plate.....	52.01-3(b)(10)(iv)
Separate	52.01-3(b)(10)(i)
Top plate.....	52.01-3(b)(10)(iii)
Tube sheet	52.01-3(b)(10)(v)

46 CFR Ch. I (10-1-08 Edition)

Crowfoot.....	52.01-3(c)(8)
Domes	52.01-3(b)(7)
Economizer	52.01-3(b)(6)
Flues.....	52.01-3(b)(11)
Fluid Conditioner fittings.....	56.07-5(d), 56.15-5
Furnace:	
Corrugated.....	52.01-3(b)(9)(i)
Plain.....	52.01-3(b)(9)(ii)
Girder	52.01-3(c)(13)
Header.....	52.01-3(b)(4)
Heads:	
Dished.....	52.01-3(b)(2)(i)
Stayed	52.01-3(b)(2)(ii)
Ligaments:	
Circumferential.....	52.01-3(b)(14)(ii)
Diagonal.....	52.01-3(b)(14)(iii)
Longitudinal	52.01-3(b)(14)(i)
Liquefied Petroleum Gas (LPG).....	58.16-5(a)
Marine portable tank	64.5(a)
Piping:	
Fittings and appurtenances	56.07-5(d)
Nominal diameter	56.07-5(b)
Nonstandard fittings	56.07-5(e)
Schedule	56.07-5(c)
Pressure, maximum allowable working	54.10-5, 64.5(d)
Pressure relief devices:	
Nonreclosing pressure relief devices:	52.01-3(d)(2)
Bursting disk	52.01-3(d)(2)(vii)
Breaking pin.....	52.01-3(d)(2)(iii)
Explosion rupture disk	52.01-3(d)(2)(ii)
Frangible disk.....	52.01-3(d)(2)(vi)
Fusible plug	52.01-3(d)(2)(v)
Rupture disk.....	52.01-3(d)(2)(i)
Shear pin.....	52.01-3(d)(2)(iv)
Pressure relief valve.....	52.01-3(d)(1)
Pilot-operated.....	52.01-3(d)(1)(iv)
Temperature-actuated	52.01-3(d)(1)(vi)
Relief valve, power actuated.....	52.01-3(d)(1)(v)
Safety valve.....	52.01-3(d)(1)(i)
Pressure-loaded pilot actuated:	
Spring-loaded.....	52.01-3(d)(1)(i)(a)
Spring-loaded pilot	52.01-3(d)(1)(i)(d)
Spring-loaded pilot actuated	52.01-3(d)(1)(i)(c)
Safety relief valve:	
Balanced.....	52.01-3(d)(1)(iii)(b)
Conventional	52.01-3(d)(1)(iii)(a)
Internal spring	52.01-3(d)(1)(iii)(c)
Reinforcement	52.01-3(c)(15)
Shell, of boiler.....	52.01-3(b)(1)
Stay:	
Crowfoot	52.01-3(c)(9)
Diagonal.....	52.01-3(c)(10)
Dog	52.01-3(c)(12)
Gusset	52.01-3(c)(11)
Sling.....	52.01-3(c)(7)
Through.....	52.01-3(c)(2)
Staybolt:	
Flexible	52.01-3(c)(6)

Subchapter F Index

Hollow screw.....	52.01-3(c)(5)
Solid screw	52.01-3(c)(3)
Stayed surfaces.....	52.01-3(c)(1)
Steam chimneys.....	52.01-3(b)(8)
Structural stiffeners	52.01-3(c)(14)
Superheater.....	52.01-3(b)(5)
Threaded joints.....	56.30-20
Tube:	
Electric-resistance welded	52.01-3(b)(12)(ii)
Seamless.....	52.01-3(b)(12)(i)
Stay	52.01-3(b)(12)(iii)
Vacuum relief valve	52.01-3(d)(3)
Water wall	52.01-3(b)(3)
Welded collar	52.01-3(c)(4)
Tank	64.5(b)
Test pressure	64.5(e)
Total containment pressure	64.5(c)
Design:	
Fluid power & control systems	58.30-5
Piping systems	56.07-5, 56.50-1
Power boilers	52.01-2, 52.01-95
Pressure vessels	54.20-3
Refrigeration machinery.....	58.20-5
Diesel engine installations:	58.10-10
Fuel systems.....	56.50-75
Fuel tanks	58.50-10
Discharge, overboard	56.50-95
Disks, rupture.....	54.15-13
Drain inspection tanks.....	56.50-60(b)
Drainage	56.50-95
Drip pans.....	56.50-65(b)(3), 56.50-60(k)
Drop weight tests.....	54.05-5(b)
Drydock examination.....	61.20-5
Ductile iron	56.60-15
Dynamic effects on piping systems	56.07-10(c)

E

Economizer, design pressure.....	52.01-95(c)
Electrodes	57.03-1(e)
Emergency bilge suction.....	56.50-50(f)
Evaporators	54.01-10(b)
Examination:	
Drydock	61.20-5
Piping	56.95-10
Power boilers	52.05-20
Welded joints	52.05-20
Exemptions, from:	
Hydrostatic tests	61.10-5(e)
Shop inspection & plan approval	54.01-15
Exhaust, internal combustion engine	58.10-5(d)
Expansion joints.....	56.35-10, 56.35-15

F

Fabrication:	
Boilers	52.05
Pressure vessels	54.20, 54.25
Fabrication inspection	50.30

46 CFR Ch. I (10-1-08 Edition)

Feed piping & pumps, boiler	56.50-30
Ferritic steels with tensile properties enhanced by heat treatment	54.25-20
Filler metals.....	56.75-5, 57.02-5
Filling pipes, cargo oil systems.....	56.50-60
Fire test, Marine Dept. of UL, Inc. (Yacht Safety Bureau)	58.50-15
Fittings, piping	56.15-1
Flanged joints.....	56.30-10
Flanges.....	56.25-5
Flexible hose	56.50-70(b)(2), 56.60-25(b)
Flexible pipe joints.....	56.30-40
Fluid conditioner fittings	56.15-5
Fluid power and control systems, miscellaneous	58.30-50
Fluid power cylinders	58.30-30
Fluid power hose & fittings	58.30-20
Forming, pipe	56.80-10
Formulas, design:	
Bilge suction pipes	56.50-50(d)
Cargo tank safety relief valves.....	54.15-25
Evaporator safety relief valves.....	54.15-15
Ferritic steels, service temperature	54.25-10
Heat exchanger relief valves.....	54.15-15
Forepeak tank bulkhead valves.....	56.50-1(b)
Foundations, boiler	52.01-130
Fuel oil systems	56.50-60, 56.50-65
Fuel pumps:	
Gasoline fuel systems	56.50-70(j)
Main & aux. machinery.....	58.05-1
Fuel tanks, independent:	
Diesel.....	58.50-10
Gasoline	58.50-5
Fusible plugs	52.01-50

G

Gages, tank level indicator (See sounding devices and liquid level gaging devices)	52.01-110
Gaging, special requirements	56.50-10
Galvanizing:	
Ferrous pipe.....	56.60-3(a)
Independent I.C.E. fuel tanks	Table 58.50-5(a) footnote 4, 58.50-10(a)(9)
Gas appliances, approvals.....	58.16-10(a)
Gas turbine installations.....	58.10-15
Gaskets.....	56.25-15
Gasoline engine installations.....	58.10-5
Gasoline fuel systems	56.50-70
Girth joints (see Circumferential joints)	
Grease extractors, boiler feed piping.....	56.50-30(c)
Group feed system.....	56.50-30(d)

H

Handhole openings in boilers	52.01-100
Headers, boiler tube connections	52.15-5
Heat exchangers	54.01-5, 54.01-10(b), 54.15-15
Heat treatment:	
Boilers	52.05-15
Pipe bends & formed components	56.80-15
Pipe welds	56.85
Pressure vessels	54.25-7

Subchapter F Index

Heating boilers	Part 53
Hubs, on flanges.....	56.30-10
Hydraulic systems	58.30
Hydrostatic pressure tests:	
Boilers	61.05-10
Fluid power systems.....	58.30-35
Piping.....	56.97-1
Pressure vessels	61.10-5(d)

I

Inspection, fabrication	50.30
Inspection & tests:	
Boilers.....	52.01-135, 61.05
Heating boilers.....	53.10-3
Machinery & equipment.....	61.20
Piping systems.....	61.15
Pressure vessels	61.10
Tanks, portable.....	64.77
Inspectors, access to plants.....	50.25-7, 56.95-5
Installation:	
Boilers.....	52.01-130
LPG cooking & heating equipment	58.16-18
Refrigeration machinery	58.20-15
Instrument piping	56.50-97(a)
Insulation, piping systems	56.50-1(k)
Internal combustion engine (I.C.E.) installations	58.10
Iron, cast & malleable	56.60-10
Iron, nodular & ductile	56.60-15

J

Joints:	
Circumferential	52.05-45
Joints, piping:.....	56.30
Brazed.....	56.30-30
Caulked.....	56.30-27
Compression	56.30-25
Detachable.....	56.50-1(j)
Expanded	56.30-15
Flanged.....	56.30-10
Flared	56.30-25
Rolled	56.30-15
Screwed	56.30-20
Sleeve coupled	56.30-35
Welded.....	56.30-5

K

Keel cooler installations	56.50-96
---------------------------------	----------

L

Lap joints	56.30-10(b)(7)
Leak tests, piping	56.97-1
Lining, noncorrosive	54.01-35(d)(2)
Liquid penetrant examination.....	56.95-10(c)(4)
Liquefied petroleum gas, defined	58.16-5
Liquid-level gaging devices:.....	52.01-110
Diesel fuel tanks.....	58.50-10(a)(6)

46 CFR Ch. I (10-1-08 Edition)

Gasoline fuel tanks	58.50-5(a)(6)
Loadings for pressure vessels	54.01-30
Low temperature operation:	54.03
Ferritic steels.....	54.25-10
Ferritic steels (HT).....	54.25-20
High alloy steels.....	54.25-15
Lubricating oil system	56.50-80

M

Machinery, main & auxiliary:	Part 58
Main propulsion.....	58.05
Refrigeration	58.20
Magnetic particle testing	56.95-10(c)(5)
Malleable iron.....	56.60-10
Manholes.....	52.01-100
Manufacturer's certification of material.....	50.25-3
Marine portable tanks	Part 64
Marking, standard for valves, etc.	56.60-1(b)
Materials:	
Acceptable standards, piping	56.60-1
Certification of toughness tests	54.05-10
Ferrous.....	56.60-3
Limitations on	56.60-2
Nonferrous	56.60-20
Non-metallic.....	56.60-25
Piping systems	56.60-1
Power boilers.....	52.01-90
Steels for pressure vessels	54.25
Maximum allowable working pressure.....	54.10-5
Mechanical stress relief.....	54.30
Metallic flexible hose	56.50-65(a)
Miniature boilers	52.25-5
Motorboats, steam-propelled.....	50.05-20
Mud drums (see Shells or Headers)	

N

Nameplates, stamping thereon	50.10-25
Nondestructive testing	56.95-10(c)
Nonmetallic flexible hose.....	56.50-70(b)(2), 56.60-25(c)
Nonmetallic pipe	56.10-5(d), 56.60-25(a)
Nonstandard fittings	56.07-5(e), 56.15-1(c)
Nozzles (see Connections)	
Nuts (see Bolting)	

O

Officer in Charge, Marine Inspection (OCMI)	50.10-10
Oil conveying piping system.....	56.50-60
Oil pollution prevention.....	56.50-50(n)
Openings:	
Bulkheads	56.50-1
Diesel fuel tanks.....	58.50-10
Gasoline fuel tanks	58.50-5
Power boilers	52.01-100
Power boilers, repairs to.....	59.10-20
Pressure vessel protective devices.....	54.15-5(k)

Subchapter F Index

Organic fluid vaporizer generators	52.25-10
Outlets & drains:	
Diesel fuel systems	56.50-75(b)(8)
Gasoline fuel systems	56.50-70(e)
Overboard discharges.....	56.50-95

P

Patches, in shells & tube sheets	59.10-20
Performance qualifications, welding & brazing	57.02-2, 57.05
Pipe, types	56.10-5
Pipe couplings, flexible.....	56.30-40
Pipe penetrations of bulkheads.....	56.50-1
Pipe stress calculations	56.35-1
Piping:	Part 56
Bilge and ballast.....	56.50-50
Blowoff	56.50-40
Boiler feed	56.50-30
Instrument	56.50-97(a)
Low temperature.....	56.50-105
Nonacceptable joints.....	56.50-105(a)(4)
Pressure relief	56.50-20
Steam and exhaust	56.50-15
Steering gear	58.25-70
Tank vent	56.50-85
Plan approval:	
Appeals	50.20-40
Calculations submitted	50.20-25
Copies of plans.....	50.20-10
Correspondence file	50.20-33
Exemptions from	54.01-15
Previously approved	50.20-15
Plastic piping components	56.60-25(d)
Plates, for welding tests	57.06
Plates, steel	54.25-3
Plugs, fusible	52.01-50
Pneumatic systems	58.30-1(a)(13)
Pneumatic tests	56.97-25(b), 56.97-35
Polyvinyl chloride (PVC) materials	56.10-5(d), 56.60-25
Postweld heat treatment	54.25-7, 56.50-105(a)(3), 56.85-15
Power boilers.....	Part 52
Power operated valves	56.50-1(g)(1)
Preheat treatment of welds.....	56.85-10
Pressure, maximum allowable working	54.10-5
Pressure gages	54.15-5(f)
Pressure relief piping	56.50-20
Pressure relief valves (see Relief valves)	
Pressure relieving devices, heating boilers.....	53.05
Pressure vessels.....	Part 54
Procedure qualifications, welding & brazing	57.03
Production tests, welded plates.....	54.05-16, 57.06
Proof tests, hydrostatic	54.10-5 (Table)
Bilge	56.50-55
Circulating	56.50-45
Condensate	56.50-35
Hydraulic.....	58.30-15

46 CFR Ch. I (10-1-08 Edition)

Q

Qualification, welding:	Part 57
Limited space.....	57.05-3
Low temperature materials.....	54.05-15
Performance	57.05
Procedure.....	57.03
Tests.....	57.01-1

R

Radiography	52.05-20, 54.25-8, 56.95-10(c)
Reach rods.....	56.50-1(g)(2)
Records, maintenance of	50.20-33
Refrigeration machinery	58.20
Refrigeration piping	58.20-20
Relief capacities, minimum for cargo tanks	54.15-25
Relief valves:	
Hot water boilers	53.05-2
Power boilers	52.01-120
Pressure vessels.....	54.15-10, 54.15-15
Tanks, portable.....	64.59
Repairs:	
Bagged or blistered shell plates.....	59.15-10
General.....	59.01-5
Miscellaneous boiler	59.15
Reports, manufacturer's data	52.01-145, 53.10-15, 54.10-25
Resilient material, use in valves	56.20-15
Responsibility of manufacturer	50.30-1(a)
Rivets	59.10-15
Rubber, use in valves	56.20-15
Rupture disks	54.15-13

S

Safety and relief valve piping.....	56.50-25
Safety factor, boilers.....	52.01-55
Safety valves:	
Boiler	52.01-120(a)
Evaporators & heat exchangers	54.15-15
Superheater	52.01-120(b)
Scuppers	56.50-95
Sea chests	56.50-95
Seal welding.....	56.30-5(e), 56.70-15(e)
Seamless pipe & tube.....	56.60-1(a) (Table)
Shell, heat exchanger.....	54.15-15(f)
Shell connections	56.50-95
Shell plates, repairs.....	59.15-10
Shock tests (see Tests)	
Shop inspection, exemptions	54.01-15
Sounding devices.....	56.50-70(g), 56.50-90
Spot examination	56.95-10(c)(2)
Stamping:	
Boilers.....	52.01-140
General	50.10-25, 50.10-30
Heating boilers	53.10-10
Stayed furnaces, repairs to	59.15-5
Stayed tube sheets, repairs	59.10-10(d)
Steam air heaters.....	52.01-95(d), 56.30-30(b)(1)

Subchapter F Index

Steam generating pressure vessels	54.01-10
Steam-propelled motorboats	50.05-20
Steam and exhaust piping	56.50-15
Steel, acceptable specifications	54.25, 56.50-105, 56.60
Steering gear:	58.25
Tests.....	61.20-1
Stress calculations:	
Dynamic	56.07-10(c)
Thermal	56.35-1
Stress relief, mechanical	54.30
Stress values, acceptable materials.....	56.60-1(a) (Table)
Stresses, boiler design.....	52.01-95(f)
Stuffing boxes, valves	56.50-1(e)
Superheater, design pressure.....	52.01-95(b)
Superheater temperature control.....	52.01-95(b)(2)
Supports:	
Boiler	52.01-130
Piping	56.35

T

Tables:	
Acceptable materials and toughness test criteria	56.50-105
Adopted specifications and standards.....	56.60-1(a)
Adopted Standards applicable to piping	56.60-1(b)
Adopted Specifications not listed in the ASME Code	56.60-2(a)
Certification of materials	50.25-1
Charpy V-notch impact requirements	54.05-20(a)
Hydrostatic tests	61.05-10
Materials:	
Diesel fuel tanks.....	58.50-10(a)
Gasoline fuel tanks	58.50-5(a)
Piping systems.....	56.60-1(a)
Nonmetallic flexible hose.....	56.60-25(b)
Power bilge pumps	56.50-55(a), 56.50-55(b)(1)
Pressure levels	54.10-5
Pressure piping classification	56.04-2
Pressure vessel classification	54.01-5(b)
Tack welds.....	56.70-15(b)(4)
Tanks, fuel (see Fuel Tanks)	
Tanks, marine portable	Part 64
Tanks, portable.....	64.77
Telltale holes in pressure vessels	54.01-35(c)
Temperature controls, electric hot water supply boilers.....	63.25-3
Tests:	
Boiler	61.05
Machinery & equipment.....	61.20
Nonstandard piping system components.....	56.97-5
Pressure vessels	61.10
Power piping	56.97, 61.15
Thermal fluid heaters, fired	52.01-35
Thermometer wells	56.07-5(d)
Threaded joints.....	56.30-20
Toughness	54.05
Toughness tests	54.05
Tubing:	56.10-5
Boiler fuel oil service systems	56.50-65(a)
Diesel fuel systems.....	56.50-75(a)

46 CFR Ch. I (10-1-08 Edition)

Gasoline fuel systems.....	56.50-70(a)
----------------------------	-------------

U

Ultrasonic examination of welds	52.05-20, 56.60-2, 56.95-10(c)(3)
Unfired pressure vessels.....	Part 54
Unfired steam boilers	54.01-10
Unit feed system.....	56.50-30(e)
USASI (see ANSI)	

V

Valves:	56.20
Bypasses	56.20-20
Certification requirements	50.25-1(c)
Construction	56.20-9
Ends	56.20-7
Marking	56.20-5
Power actuated.....	56.50-1(g)(1), 56.50-60(d)(3)
Resilient material	56.20-15
Remote operated.....	56.50-1(g)
Valves, relief (see relief valves)	
Van Stone lap joint flanges	56.30-10(b)(7)
Vent pipes:.....	56.50-85
Diesel fuel tanks.....	56.50-75(b)(7)
Gasoline fuel tanks	56.50-70(h)

W

Water columns	52.01-110
Watertube boilers	52.15
Welded pipe & tubing, restrictions.....	56.60-2(b)
Welding:.....	Part 57
Backing rings, limitation	56.70-3
Limited space qualifications.....	57.05-3
Performance qualifications	57.05
Procedure qualifications.	57.03, 54.05-15
Production tests.....	57.06, 54.05-16
Toughness test acceptance criteria	54.05-17
Transfer of performance qualifications.....	57.05-2
Welding, of QT steels.....	54.25-25
Welding neck flanges.....	56.30-10(b) (8) & (9)
Welds:	
Attachment	54.20-3(d), 56.70-15(g), 52.05-30
Butt	56.70-15
Fillet.....	56.70-10(b), 56.70-15(d)
Seal.....	56.70-15(e)
Socket.....	56.30-5(c), 56.30-10(b)(4)
Socket, restrictions on.....	56.50-105(a)(4) & (b)(4)
Welds, HT of in piping systems.....	56.85
Wrapper plates, repairs.....	59.10-35

X

X-ray.....	52.05-20, 54.25-8, 56.95-10(c)
------------	--------------------------------